Product Guide

Looking for one source for all your recording media needs? You just found it.

For the widest array of media products in the business, you've come to the right place.

No one offers you more solutions to choose from than Maxell – from the front line of innovative broadcast recording products such as HDCAM – to the latest LTO 5 WORM Media based on breakthrough NeoSMART Technology.™

And no one backs them better, either. Many of the Maxell products featured in this brochure come with an added feature: an ironclad lifetime warranty. You can return these products – whether defective or not – if you are not completely satisfied.

Specialists are standing by.

This brochure is designed to answer most of your questions about Maxell products – and to help you choose which ones are best for you. The first section covers our broadcast products, while the second section describes and details our computer media.

If you still have questions, our tech support center is just a toll-free phone call away at 1-800-377-5887. Maxell specialists are standing by to provide any assistance you may need in the media arena.

See the future of recording media today!

To get more information on any Maxell products, call us at 1-800-533-2836 or drop by our Web site at **www.maxell.com**. And, of course, you're welcome to visit any Maxell product distributor.

As your single-source media specialist, we look forward to working with you as your broadcast and computer applications merge.

maxell
Professional Media Products

iVDR VC102 Video Capture Device Powered by CitiDISK®

iVDR VC102 Video Capture Device Powered by CitiDISK®

The Maxell VC102 is a lightweight, ultra-portable tapeless video capture device optimized for direct recording from virtually any FireWire-enabled DV video camera. Featuring cost-effective, high-capacity storage, native QuickTime and AVI support, and other Direct-to-Disk capabilities that you have come to rely on, the VC102 is designed to help you save time, effort and money in the field. Thanks to VC102, gone are the wasted hours (and dollars) digitizing tape. Instead, production pros can "recapture" their most precious resource – *time*.

With its internal rechargeable battery (optional external battery available), VC102 connects to HD, HDV, and DV camcorders to simultaneously or independently capture footage to tape and/or a removable high-capacity iVDR EX hard drive cartridge directly from the camera's FireWire port. When shooting is complete, you can set your camcorder to VCR mode to PLAY the last scenes on the viewfinder or simply plug directly into your computer's FireWire port to edit or play your video footage at anytime. With VC102's broad video format and non-linear editing (NLE) compatibility, video pros can easily leverage today's burgeoning instant or "same-day" editing (SDE) applications – facilitating not only new, more efficient ways of recording and editing video, but also "capturing" new levels of profitability.

SPECIFICATIONS

Interface	One IEEE 1394A port SBP-2 and Isochronous DV and HDV video streams
Cables	One 6-pin to 4-pin (right angled) FireWire cable is included
	One 6-pin to 4-pin (left angled) FireWire cable is included
	One 6-pin to 6-pin FireWire cable is included
Sustained Transfer Rate	18 – 22 MBytes/second
Internal Battery	Rechargeable, lithium battery good for up to 90 minutes of nonstop recording; 3.0 hours external
External Power	+6V to +18V DC in
Operating Temperature	-10°C to 55°C (14°F – 131°F)
Storage Temperature	-22°C to 65°C (-7.6°F – 149°F)
Relative Humidity	95% Maximum
Recording Capacity	Consult the Quick User's Guide
Dimensions	Width: 91.71 mm (3.61 in), Length: 151.62 mm (5.96 in), Height: 32.91 mm (1.29 in)
Weight	226 grams (8 ounces)

CitiDISK is a registered trademark of Shining Technology, Inc.
Quick-Time is a trademark of Apple Computer, Inc.
HDV is a trademark of Sony Corp. & JVC.

LINEUP

Item #	Description	Carton Quantity
261388	iVDR VC-102	1

iVDR EX Field Tough Media

Rugged, Fast, Pocket-Sized Removable Hard Drive

iVDR is a new standard in removable media designed for high speed, high resolution video imaging. The iVDR interface and adapter are the key.

Whether off loading a professional camera or saving data from a laptop, you can have your latest files with you all on drop, shock and vibrant resistant field tough media.

SPECIFICATIONS

Product Type	iVDR-EX 250	iVDR EX-500
Capacity	250 GB	500 GB
Form Factor	2.5"	
Standard Interface	USB 2.0 /FireWire 800b	
Cartridge Dimensions	127 mm x 78.7 mm x 17.8 mm / 5" x 3.1" x 0.7"	
Weight (cartridge only)	155.9 g / 6.1 oz	
Durability Cycles	10,000 times (Cart)	
I/O Data transfer rate, maximum (MB/s) (SATA)	300	
Disk data transfer rate	830	1175
Rotational Speed	5,400 rpm	
Power consumption at Read/Write	1.6W	
Buffer size	8 MB	
Operational Temperature	0°C – 50°C (32°F – 122°F)	
Non-operating Temperature	-40°C – 70°C (-40°F – 158°F)	
*Thermal Shock	-40°C – 70°C (-40°F – 158°F)	
Operating vibration (Grms)	0.22G (5-500Hz, x, y and z axes, .0001 g2/Hz)	
Operating shock	≥350G	
**Non-operating shock (half sine linear)	≥2000G	
Shock resistant (drop test)	Tested to 1.4 m / 4.6 ft.	
Operating altitude	-1,000 to 10,000 ft.	

*Thermal Shock – Military spec conditions
**z-axis, flat drop

LINEUP

Item #	Description	Carton Quantity
261288	iVDR-EX 250 GB	1
261527	iVDR-EX 500 GB	1

iVDR Standard Adapter

- Removable cartridge – Carry the "Field Tough" media cartridge in your pocket while leaving the adaptor connected to your computer or other iVDR device.

- High speed USB 2.0 – (480Mbps) and IEEE 1394b (FireWire 800) – (800Mbps) multi-interface

- Compact and lightweight – (134.6mm x 88.9mm x 33.0mm / 5.3" x 3.5" x 1.3", 124.7 g / 4.7 oz)

- Universal AC Adapter included if extra power is required

- Status LED indicator

Specifications

General	
Model	iVDR Universal Adaptor
Interface	Hi-Speed USB 2.0, Firewire 800b
Auxiliary power input	5V, DC
Dimensions	
Height (mm) / (inches)	33.0 / 1.3
Width (mm) / (inches)	88.9 / 3.5
Length (mm) / (inches)	134.6 / 5.3
Weight (g) / (oz)	124.7 / 4.7
Performance	
USB 2.0, maximum (Mbps)	480
Firewire, maximum (Mbps)	800
Power	
Read / Write, typical (W)	3.8
Startup Current 5V (amps max)	0.9
Power-on to Ready (sec)	5
Environmental	
Temperature, ambient operating (°C) / (°F)	0 – 50 / 32 – 122
Temperature, ambient non-operating (°C) / (°F)	-40 – 70 / -40 – 158
Mechanical Reliability	
Cartridge insertion/removal cycles	10,000

Note: All specs may be subject to change

LINEUP

Item #	Description	Carton Quantity
261217	iVDR Standard Adapter	1

Professional Disc for XDCAM Systems

Professional Disc for XDCAM Systems.

The Maxell Professional Disc is an all new rewritable optical disc featuring remarkably high-capacity storage on a 12 cm diameter disc packed in cartridge, available in 23.3 GB and 50 GB capacities.

Full features compatible with the XDCAM System offer outstanding picture quality and ease of use.

The Maxell 50 GB Disc (PD) provides up to 265 minutes of record/playback time in the HD format (MPEG HD) LP Mode, more than 150 minutes in the HD format (MPEG HD) HQ mode, approximately 100 minutes of 50 Mbps in the SD format (MPEG IMX) and up to 185 minutes in the SD format (DVCAM).

SPECIFICATIONS

Model	PD-23SL	PD-50L
Item #	229155	229156
	Single Layer	Double Layer
Carton Quantity	5	5
Storage Capacity	23.3 GB	50 GB
Laser Wavelength	405 nm	405 nm
Disc Speed	2.4X	2.4X
Data Transfer Rate	86 Mbps (1 optical head)	86 Mbps (1 optical head)
Disc Diameter	120 mm	120 mm
Cartridge Size	128.6x130.6x9.1 mm	128.6x130.6x9.1 mm
Recording Layer	Phase-change Material	Phase-change Material
Erase/Write/Read Cycles	≥1,000 times	≥1,000 times
Read Cycles	≥1,000,000 times	≥1,000,000 times
Estimated Shelf and Archival Life	≥50 years*	≥50 years*

*Compared with Maxell reference tape

P2 "E" Series Solid State Memory CARDS

Solid State Memory Cards that offer super-durable memory

Maxell introduces the "E" series of professional solid-state memory "P2 Cards" for Panasonic professional solid-state P2 memory recording systems.

These professional "E" Series P2 features a Multi Level Cell (MLC) NANC Flash Memory that results in faster transfer speeds, higher reliability, and longer card life, so the "E" Series offers fast file based workflow for camera recording, non-linear editing and data transmission applications.

"P2 Cards" are also resistant to impact, vibration, and environmental extremes of humidity and temperature. They can be reused up to 5 years (when recorded once a day at full volume capacity and 10 years (when recorded once a day at half volume capacity) providing long-term performance at a cost savings.

SPECIFICATIONS

Model	P2C-16E	P2C-32E	P2C-64E
Capacity[1]	Approx. 16 GB	Approx. 32 GB	Approx. 64 GB
Interface	CardBus – (Type II PC Card Standard)		
Operating Voltage	DC3.3V±0.3V		
Power Consumption	Approx. 1.5W(approx. 2.5W with Panasonic AJPCD35)		
Operating Temperature/Relative Humidity	-20°C – 60°C / 5% – 90% RH (no condensation)		
Storage Temperature/Relative Humidity	-40°C – 80°C / 5% – 90% RH (no condensation)		
Weight	Approx. 45 g. (1.6 oz)		
External Dimensions	85.6 mm(L) x 54 mm(W) x 5 mm(D) 3.37"(L) x 2.13"(W) x 0.2"(D)		
Recording Time – Video Codec			
MPEG4 AVC/H.264 (AVC-Intra 100)	16 min	32 min	64 min
MPEG4 AVC/H.264 (AVC-Intra 50)	32 min	64 min	128 min
DVCPRO HD	16 min	32 min	64 min
DVCPRO 50	32 min	64 min	128 min
DVCPRO/DV	64 min	128 min	256 min

[1]Total card capacity includes space for data management such as system data, therefore the actual usable area is less than capacity indicated on the card.
Note: "AVC-Intra and DVCPRO" are trademarks of Panasonic Corporation.

LINEUP

Item #	Description	Carton Quantity
229267	P2C-16E	1
229268	P2C-32E	1
229269	P2C-64E	1

Blu-ray

Recordable Write Once/ Rewritable Media.

Maxell Blu-ray Discs are ideal for recording high-definition (HD) video and large data archives.

Maxell Blu-ray Discs have been especially designed to meet currently expanding digital HD TV and video requirements, making it possible to record massive amounts of data. Unlike the red laser utilized in conventional DVDs, Blu-ray Discs use a blue-violet laser.

SPECIFICATIONS

Model	BD-R	BD-R DL	BD-RE	BD-RE DL
Description	Write Once		Rewritable	
Layers	Single	Dual	Single	Dual
Item #	631010	631003	631014	631004
Packaging	5			
Capacity	25 GB	50 GB	25 GB	50 GB
Data Transfer Rate	35.965–71.939 Mbps (1x-2x)			
Disc Diameter	120 mm			
Disc Thickness	1.2 mm (0.1 mm cover + 1.1 mm)			
Cartridge	Optional			
Recording Film	Inorganic Dye		Phase Change	
Laser Wavelength	405 nm (blue violet)			
Lens N/A	0.85			

HDCAM

For Use in a Wide Range of Applications, from Transmission to HD ENG/EFP.

The new B-HD series 1/2" metal particulate tape cassette incorporates superfine ceramic armor metal particles (0.1 micron size) to achieve an exceptional output level and surpass the low-noise requirements of HDCAM's 7-to-1 compression algorithm.

Utilizing Maxell's superior ultrahigh performance binder systems, the new B-HD series cassettes achieve the exceptional durability essential to resilience in the volatile environments of ENG/EFP recordings, while exceeding the compulsory storage performance demands of long-term archives.

SPECIFICATIONS

	Item	Unit	Typical Value
Physical Properties	Tape width	mm	12.65
	Total tape thickness	µm	13.8
	Magnetic layer thickness	µm	3.0
	Base film thickness	µm	10.0
	Backcoating thickness	µm	0.8
	Yield strength	N (kgf)	25 (2.6)
	Breaking tensile strength	N (kgf)	49 (5.0)
	Residual elongation	%	0.07
	Magnetic surface electrical resistance	Ω/sq.	1×10^{10}
Magnetic Properties	Coercivity (Hc)	kA/m (Oe)	131 (1,650)
	Retentivity (Br)	mT (G)	280 (2,800)
	Squareness ratio (Br/Bm)	–	0.85
Video Properties	Optimum recording current	%	100
	RF output (47 MHz)*	dB	0
	C/N*	dB	0

*Compared with Maxell reference tape

LINEUP

Cassette Size	Item #	Model	Tape Length (m)	(ft)	Recording Time (min)	Cassette Dimensions (mm)	Case Dimensions (mm)	Carton Quantity
Small	292890	B-6HD	43	141	6	156x96x25	172x111x33	10
	292880	B-12HD	78	256	12			10
	292870	B-22HD	136	446	22			10
	292860	B-32HD	195	640	32			10
	292850	B-40HD	241	791	40			10
Large	292840	B-64HDL	382	1,253	64	254x145x25	271x162x33	10
	292830	B-94HDL	557	1,827	94			10
	292820	B-124HDL	732	2,402	124			10

Digital Betacam

The Future of High-Density Component Digital Recording.

Combine Maxell's exclusive metal tape technology with an advanced cassette mechanism and what do you get? The Maxell Digital Betacam videocassette with an extra-low error rate. Maxell Digital Betacam is ideal for all types of professional applications – ENG/EFP, editing, transmission, and postarchival playback. These videocassettes offer maximum performance with exclusive multiorientation technology and advanced dispersion systems, a high-durability design with Maxell ceramic armor metal particles, and smooth tape travel.

SPECIFICATIONS

	Item	Unit	Typical Value
Physical Properties	Tape width	mm	12.65
	Tape thickness	µm	13.8
	Magnetic layer thickness	µm	3.0
	Base film thickness	µm	10.0
	Backcoating thickness	µm	0.8
	Yield strength	N (kgf)	25 (2.6)
	Breaking strength	N (kgf)	49 (5.0)
	Residual elongation	%	0.07
	Magnetic layer electrical resistance	Ω/sq.	1×10^{10}
Magnetic Properties	Coercivity (Hc)	kA/m (Oe)	127 (1,600)
	Retentivity (Br)	mT (G)	260 (2,600)
	Squareness ratio (Br/Bm)	–	0.84
Video Properties	Optimum recording current	%	100
	RF output*	dB	0
	C/N*	dB	0
Audio Properties	Sensitivity*	dB	0
	Frequency response (12 kHz/1 kHz)*	dB	0
	Audio S/N*	dB	0

*Indicates a comparison with Maxell reference tape

LINEUP

Cassette Size	Item #	Model	Tape Length (m)	(ft)	Recording Time (min)	Cassette Dimensions (mm)	Case Dimensions (mm)	Carton Quantity
Small	288915	B-D6†	43	141	6	156x96x25	172x111x33	10/50
	288815	B-D12†	78	256	12			
	288715	B-D22	136	446	22			
	288615	B-D32	195	640	32			
	288515	B-D40	241	791	40			
Large	289215	B-D64L	382	1,253	64	254x145x25	271x162x33	10
	289515	B-D94L	557	1,827	94			
	289015	B-D124L	732	2,402	124			

†Indicates products that do not employ the SW (Smooth Winding) reel

Betacam SX

Reliable Tape Technology for ENG/EFP Applications.

Maxell Betacam SX accomplishes 4:2:2 component digital recording and backward compatibility with Betacam and Betacam SP recordings and also provides an excellent interface ability with nonlinear editing systems and video servers. It is gaining industry-wide attention as a next-generation ENG and production system.

SPECIFICATIONS

	Item	Unit	Typical Value
Physical Properties	Tape width	mm	12.65
	Total tape thickness	µm	14.0
	Magnetic layer thickness	µm	1.5
	Base film thickness	µm	11.7
	Backcoating thickness	µm	0.8
	Yield strength	N (kgf)	22 (2.2)
	Breaking strength	N (kgf)	43 (4.4)
	Residual elongation	%	0.07
	Magnetic surface electrical resistance	Ω/sq.	1×10^{10}
Magnetic Properties	Coercivity (Hc)	KA/m (Oe)	127 (1,600)
	Retentivity (Br)	mT (G)	250 (2,500)
	Squareness ratio (Br/Bm)	–	0.84
Video Properties	Optimum recording current	%	100
	RF output (25.7 MHz)*	dB	0
	C/N*	dB	0

Compared with Maxell reference tape

LINEUP

Item #	Model	Tape (m)	Length (ft)	Recording Time (min)	Cassette Dimensions (mm)	Case Dimensions (mm)	Case Quantity
292770	B-22SX	88	289	22	156x96x25	172x111x33	10/50
292760	B-32SX	124	407	32			
292752	B-62SX	231	758	62			
292740	B-64SXL	241	791	64	254x145x25	271x162x33	10
292730	B-94SXL	349	1,145	94			
292720	B-124SXL	456	1,495	124			
292710	B-18SXL	671	2,201	184			
292705	B-194SXL	707	2,320	194			

Betacam SP

Betacam SP: For Broadcasting and Business Applications.

Maxell Betacam SP takes on any taping task with ceramic armor metal particle technology – producing phenomenal picture clarity and ultrahigh reliability. High output characteristics over a wide frequency range ensure high-fidelity video and audio performance that makes Maxell Betacam SP perfect for master-tape applications. Some items are available in bulk.

SPECIFICATIONS

	Item	Unit	Typical Value
	Magnetic particles	–	Ceramic Armor Metal
Physical Properties	Total thickness	µm	14.50
	Magnetic layer thickness	µm	3
	Base film thickness	µm	10.5
	Backcoating thickness	µm	1.0
	Tape width	mm	12.65
	5% yield strength	kg	2.6
	Residual elongation	%	0.07
Magnetic Properties	Coercivity (Hc)	kA/m (Oe)	121 (1,520)
	Retentivity (Br)	mT (G)	250 (2,500)
	Squareness ratio (Br/Bm)	–	0.89
Video Properties	RF output*	dB	0
	Video S/N*	dB	0
	Dropout	unit min.	< 3
	Still life	min.	> 120
Audio Properties	Sensitivity*	dB	0
	Frequency response*	dB	0
	Erasability	dB	73

*All data are representative figures based on Maxell's standard reference tape

LINEUP

Item #	Model	Tape Length (m)	Playing Time (min)	Cassette Dimensions (mm)	Case Dimensions (mm)	Carton Quantity
294413	B-5M SP	42	5	156x96x25	172x111x33	10/50
289613	B-10M SP	75	10			
289513	B-20M SP	150	20			
289313	B-30M SP	222	30			
293113	B-60ML SP	457	60	254x145x25	271x162x33	10
293013	B-90ML SP	670	90			

D-5

New Ceramic Armor Metal Particle and Advanced Tape Technologies.

The diversification of the modern television system requires a multiple-purpose format to handle standard, wide, and high-definition television standards. The D-5 format, with its high data rate of 288 Mbps, is compatible with all television standards, and its multiple-purpose capabilities are getting the industry's attention.

SPECIFICATIONS

	Item	Unit	Typical Value
Physical Properties	Tape width	mm	12.65
	Total tape thickness	μm	10.8
	Magnetic layer thickness	μm	2.8
	Base film thickness	μm	7.5
	Backcoating	μm	0.5
	Yield strength	N (kgf)	17 (1.7)
	Breaking strength	N (kgf)	34 (3.5)
	Magnetic surface electrical resistance	Ω/sq.	1×10^{10}
Magnetic Properties	Coercivity (Hc)	kA/m (Oe)	148 (1,860)
	Retentivity (Br)	mT (G)	290 (2,900)
	Squareness ratio (Br/Bm)	–	0.83
Video Properties	RF output (33 MHz)*	dB	0
	C/N*	dB	0

*Indicates a comparison with Maxell reference tape

LINEUP

Item #	Model	Tape Length (m)	Recording Time (min)	Cassette Dimensions (mm)	Case Dimensions (mm)	Carton Quantity
301610	D5C12M	123	12	212x124x25	231x144x33	10
301630	D5C33M	334	33	212x124x25	231x144x33	
301660	D5C63M	635	63	212x124x25	231x144x33	
301410	D5C94L	947	94	296x167x25	315x182x34	
301210	D5C124L	1,249	124	296x167x25	315x182x34	

DVCPRO HD

DVCPRO HD Digital Videocassette.

Maxell has successfully developed DVCPRO HD for use in the high-definition television environment, with recording times of up to 126 minutes. Maxell's exclusive magnetic tape technology and advanced cassette-shell design deliver the video and audio quality you expect for use in the extreme outdoor environments of ENG/EFP.

In developing DVCPRO HD videocassettes, Maxell has relied upon its vast knowledge and experience in the development of various other professional media, including D-5 and HDCAM digital videocassettes, to provide a product that ensures high reliability and operational stability.

SPECIFICATIONS

	Item	Unit	Typical Value
Physical Properties	Tape width	mm	6.35
	Tape thickness	μm	8.5
	Breaking strength	N (kgf)	10 (1.0)
Magnetic Properties	Coercivity (Hc)	kA/m (Oe)	187 (2,350)
	Retentivity (Br)	mT (G)	380 (3,800)
Video Properties	RF output (20.9 MHz)*	dB	0
	C/N*	dB	0

*Indicates a comparison with Maxell reference tape

LINEUP

Item #	Model	Tape Length (m)	Tape Length (ft)	Recording Time (min)	Cassette Dimensions (mm)	Case Dimensions (mm)
227735	DVPHD-33EM	137	449	33*/16	97.5x64.5x14.6	105x70x20
227734	DVPHD-64EL	263	863	33*/16	125x78x14.6	132.5x83.5x20
303126	DVPHD-126EXL	515	1690	126*	172x102x14.6	192x121x25

*Recording time using DVCPRO HD-LP format VTR

DVCPRO

Superb Performance for ENG and AFP.

Maxell's DVP series metal particle videocassettes meet the stringent specifications of the DVCPRO format and employ Maxell's most advanced technologies, including ceramic armoring of each metal particle. This technique protects the particles from oxidation as well as from direct sunlight and the heat encountered in recorders. It also allows the magnetic layer of the tape to achieve energy levels as high as 9,500 gauss, which dramatically enhances image definition and reduces noise.

DVP series videocassettes also employ uniformly dispersed fillers in the tape formulation. These fillers minimize head abrasion by reducing friction between the head and the tape during high-speed head rotation while also cleaning debris from the head. In addition, the tape's binder system is extremely durable, maintaining specified performance under the ambient conditions present in hostile ENG/EFP shooting environments.

Other features include a large inspection window and a shell and cover made of static-resistant resin that prevents attraction of dropout-inducing dust and foreign particles.

SPECIFICATIONS

	Item	Unit	Typical Value
Physical Properties	Magnetic particles	–	New Ceramic Armor Metal Particles
	Tape width	mm	6.35
	Tape thickness	μm	8.5
	Yield strength	N (kgf)	>5 (0.5)
	Breaking strength	N (kgf)	>10 (1.0)
	Residual elongation	%	<0.2
	Magnetic layer electrical resistance	Ω/sq.	$6x10^{10}$
Magnetic Physical	Coercivity (Hc)	kA/m (Oe)	191 (2,400)
	Retentivity (Br)	mT (G)	380 (3,800)
	Squareness ratio (Br/Bm)	–	0.86
Video Properties	RF output (20.9 MHz)*	dB	0
	C/N*	dB	0

*Indicates a comparison with Maxell reference tape

LINEUP

Item #	Model	Tape Length		DVCPRO25 (min)	DVCPRO50 (min)	Cassette Dimensions (mm)	Case Dimensions (mm)	Carton Quantity
		(m)	(ft)					
303811	DVP-12M	27	89	12	6	97.5x64.5x14.6	105x70x20	10/50
303831	DVP-33M	70	230	33	16			
303861	DVP-66M	137	449	66	33			
303711	DVP-34L	72	236	34	17	125x78x14.6	132.5x83.5x20	
303611	DVP-66L	137	449	64	32			
303411	DVP-94L	194	636	94	47			
303211	DVP-126L	259	850	126	63			

DVPRO/HDV

ME Tape Technology Provides Enhanced Reliability in ENG/EFP Operations.

Maxell's DVPRO tape for HDV and DV achieves superior image quality and outstanding performance across a wide variety of applications. Maxell has applied its many years of videocassette tape development expertise and numerous advanced tape technologies to create a durable and reliable magnetic tape and shell that both HDV and DV demand.

With the introduction of new robust lubricant and a diamond-like carbon (DLC) film with extra thickness, the durability of the tape is dramatically boosted in various environments and in repetitive situations such as high-speed playback, editing, and rewinding. This rugged durability provides for improved short-wavelength output, decreased noise, and minimized spacing loss with the video head.

In addition, the cassette is housed in a specially designed PP storage case that effectively resists dust, heat, and shock.

SPECIFICATIONS

	Item	Unit	Typical Value
Physical Properties	Tape width	mm	6.35
	Total tape thickness	µm	7.0
	Magnetic surface electrical resistance	Ω/sq.	6×10^6
Magnetic Properties	Coercivity (Hc)	kA/m (Oe)	125 (1,570)
	Retentivity (Br)	mT (G)	450 (4,500)
	Squareness ratio (Br/Bm)	–	0.8
Video Properties	RF output (21MHz)*	dB	+1.4
	Error Rate	dB	4×10^{-5}

*Compared with Maxell reference tape

LINEUP

Item #	Description	Tape (m)	Length (ft)	Playing Time (min)	Cassette Dimensions (mm)	Carton Quantity
Standard Case						
303140	DV-63PRO Master	73	240	63	66x 48x12	5
Hard Case						
229032	DV-M33 Master	39	128	33	66x48x12	10
229031	DV-M48 Master	56	184	48	66x48x12	10
229030	DV-M63 Master	73	240	63	66x48x12	10
229037	DV-64 Master	74	243	64	125x78x15	10
229036	DV-96 Master	111	365	96	125x78x15	10
229035	DV-124 Master	143	470	124	125x78x15	10
229034	DV-186 Master	213	700	186	125x78x15	10
229033	DV-276 Master	315	1035	276	125x78x15	10

Mini DV

High-Performance Digital Video Cassettes.

With a recording density nearly seven times higher than VHS, Maxell's Mini DV cassettes fully exploit the potential of this compact digital video format. A protective layer encapsulates the metal-evaporated layer of Maxell Mini DV cassettes, allowing them to excel even in editing-intensive environments. The cassette itself is dust-resistant antistatic resin designed to withstand rugged operation.

SPECIFICATIONS

	Item	Unit	Typical Value
Physical Properties	Tape width	mm	6.35
	Total tape thickness	µm	7
	Light transmittance	%	Under 5
Magnetic Properties	Coercivity (Hc)	kA/m (Oe)	120 (1,510)
	Retentivity (Br)	mT (G)	450 (4,500)
	Squareness ratio (Br/Bm)	–	0.8
Electromagnetic Conversion Performance*	Optimum recording current	dB	0
	Data signal: output (21 MHz)	dB	Under -1
	Frequency response (21/10.5 MHz)	dB	Within +/-2
	Overwrite (21/10.5 MHz)	dB	Under +2
	C/N (21 MHz)	dB	Over -2
	C/N (10.5 MHz)	dB	Over -2
	Tracking signal: output (0.47 MHz)	dB	0
	Tracking signal: overwrite (0.47/21 MHz)	dB	Under +1
	Impulse response (1/90 Tb)	%	Within +/-5

*Comparisons with DV-format reference tape

LINEUP

Item #	Model	Recording Time	Carton Quantity
298011	DVM-60PI	60 min	10/50

DVD-R/RW Camcorder

For Video Recording with DVD Compatible Cameras.

FEATURES

DVD-R

- 1.4 GB – 30 minutes of video recording
- Available in square caddy, round holder, and bare media
- For one-time recording with DVD-R compatible camcorders

DVD-RW

- Ideal for editing video content
- Up to 2.8 GB – 1 hour of video recording/1,000 still images
- For recording and re-recording with DVD-RW compatible camcorders

SPECIFICATIONS

	8 cm DVD disc	
	DVD-R	DVD-RW
Recording Capacity	1.4 GB (per side)	1.4 GB (per side) 2.8 GB (double sides)
Disc	Write-once	Rewritable
Laser wavelength	650 nm	650 nm
Track pitch	0.74 µm	0.74 µm
Minimum recording mark length	0.40 µm	0.40 µm
Sector size	2048 bps	2048 bps
Reference data transfer rate	11.08 Mbps	11.08/22.16 Mbps
Substrate material	Polycarbonate	Polycarbonate
Recording material	Organic dye/metal reflective layer	Phase-change recording materials

DIMENSIONS

External diameter	80 mm	80 mm
Internal diameter	15 mm	15 mm
Thickness	1.2 mm	1.2 mm

LINEUP

Item #	Description	Playing Time (min)	Carton Quantity
567619	DVD-R Camcorder 1 Pak 1.4 GB	30	5
567622	DVD-R Camcorder 3 Pak 1.4 GB	30	6
567625	DVD-RW Camcorder 2 Pak 1.4 GB	30	6
567647	DVD-R Double-sided 3 Pak 2.8 GB	60	6
567646	DVD-RW Double-sided 2 Pak 2.8 GB	60	6

Video Cross-Reference (NTSC)

		MAXELL	SONY	FUJI	PANASONIC	TDK	QUANTEGY
Professional Disc for XDCAM		PD-23SL PD-50L	PFD-23A PFD-50DLA	PD711		PDRE-23CN PDRE-50CN	
P2 Memory Cards		P2C-16A P2C-32A P2C-64A P2C-16E P2C-32E P2C-64E		P2 MCR-16WW P2 MCR-32WW	AJ-P2O016RG AJ-P2O032RG AJ-P2O064RG AJ-P2O016XG AJ-P2O032XG AJ-P2C064XG		
Blu-ray		BD-R BD-RE	BD-R BD-RE	BD-R BD-RE		BD-R BD-RE	
D-2 19 mm Digital	Large	D2L-208MDV 188 156 126	D2L-208MA 188 156 126	D2001 L-208 188 156 126		B1655 D2-L208K 188 156 126	319 L-200 180 160 120
	Medium	D2M-94MDV 64 34 18 12 6	D2M-94M (A) 64 34 22 18 12 6	D2001 M-94 64 34 22 18 12 6		B1655 D2M94/K 64 34 18 12 6	319 MO-98 90 60 34 20 12 6
	Small	D2S-32MDV 12 6 6 CM DS-5CL	D2S-32M 22 12 6 D2-S6VCM D2S-12CL	D2001 S-32 22 12 6 6CM		B1655 D2-S32 22 12 6 6CM	319 SO-30 20 12 6
D-5 1/2" Digital	Large	D5C-124L D5C-94L		L-94	AJ-D5C124L AJ-D5C94L		
	Medium	DC5-63M D5C-48M D5C-33M D5C-12M		M48 M33 M12	AJ-D5C63M AJ-D5C48M AJ-D5C33M AJ-D5C12M	M63	
	Small						
DVC PRO HD	X-Large	DVP-HD126EXL			AJ-HP126EXG		
	Large	DVPHD-64EL		32L	AJ-HP64ELG		
	Medium	DVP-HD-33EM			AJ-HP33EMG		
DV/HDV		DV-63PRO DV-M33 DV-M48 DV-M63 DV-64 DV-96 DV-124 DV-186 DV-276	PHDV-63M PHDV-64DM PHDV-124DM PHDV-276DM	Pro DV-63S Pro DV-96L Pro DV-124L Pro DV-186L Pro DV-276L	AY-DVM63AMQ AY-DVM96AMQ AY-DV186AMQ AY-DV276AMQ		
DVC PRO	Large	DVP-34L DVP-66L DVP-94L DVP-124L		DP-66L DP-94L BP-124L	AJ-P64L AJ-P94L AJ-P123L		
	Small	DVP-12M DVP-24M DVP-33M DVP-66M		DP-12M DP-24M DP-33M DP-66M	AJ-P12M AJ-P23M AJ-P33M AJ-P63M		
Digital Betacam	Large	B-D124L 94 64 34	BCT-D124L 94 64 34	D321 D124 94 64 34			
	Small	B-D40 32 22 12 6	BCT-D40 32 22 12 6	D321 D40 32 22 12 6			
Betacam SP	Large	B-90ML BQ 60 30 20 10	BCT-90MLA 60 30 20 10	M321SP 90ML 60 30 20 10 5			298 BC-90MLA 60
	Small	B-30M BQ 20 10 5	BCT-30MA 20 10 5	M321SP 30M 20 10 5		B415 BC-30M 20 10	298 BC-30M 20 10 5
Beta SX	Large	B-64SXL B-94SXL B-124SXL B-184SXL B-194SXL	BCT-64SXLA BCT-94SXLA BCT-124SXLA BCT-184SXLA BCT-194SXLA	SX-64L SX-94L SX-124L SX-184L SX-194L			
	Small	B-6SX B-12SX B-22SX B-32SX B-62SX	BCT-12SXA BCT-22SXA BCT-32SXA BCT-62SXA	SX-6S SX-12S SX-22S SX-32S SX-62S			

Video Cross-Reference (NTSC)

		MAXELL	SONY	FUJI	PANASONIC	TDK	QUANTEGY
Beta IMX	Large	B-64MXL B-94MXL B-124MXL B-184MXL	B-64MXL B-94MXL B-124MXL B-184MXL	B-64MXL B-94MXL B-124MXL B-184MXL			
	Small	B-6MX B-12MX B-22MX B-32MX B-60MX	B-6MX B-12MX B-22MX B-32MX B-60MX	B-6MX B-12MX B-22MX B-32MX B-60MX			
Betacam	Large	B-90L BQ 60 30	BCT-90GL 60 30 20 10 5	H321E 90L 60			198 BC-90LA 60
	Small	B-30 BQ 20 10 5	BCT-30G 20 10 5 5CLN	H321E 30 20 10 5		B410 BC-20 10 5	198 BC-30A 20 10 5
HDCAM	Large	B-34HDL B-64HDL B-94HDL B-124HDL	BCT-64HDL BCT-94HDL B-124HDL	HD-34L HD-64L HD-94L HD-124L			
	Small	B-6HD B-12HD B-22HD B-32HD B-40HD	BCT-22HD BCT-32HD BCT-40HD	HD-6S HD-12S HD-22S HD-32S HD-40S			
Hi-8 (MP)		P6-120HMBQ 60	P6-120HMPX 60	M221MP P6-120 60			
Hi-8 (ME)			M221ME E6-120 60 30				
S-VHS 1/2"		ST-182BQ 126 62 42 31 20	MQST-30 MQST-60 MQST-120	H471 ST-120 60 30 (DC)	NV-T180HGZ 160 140 120 90 60 40 30		
1/2" VHS Standard		T-30 PLUS T-60 PLUS T-90 PLUS T-120 PLUS T-160 PLUS	PR T-30 PR T-60 PR T-120	STD T-60 STD T-120 STD T-160	HST-120 HST-160		189 T-30 189 T-60 189 T-90 189 T-120
1/2" VHS Bulk		T-10CN T-15CN T-120CN T-300CN T-45CN T-60CN T-75CN T-90CN T-105CN T-120CN T-127CN T-160CN	TS-15 TS-30 TS-45 TS-60 TS-75 TS-96 TS-105 TS-120 TS-127	SFD-15 SFD-30 SFD-60 SFD-90 SFD-105 SFD-120			189B T-15 189B T-30 189B T-45 189B T-60 189B T-90 189B T-105 189B T-120 189B T-127
1/2" VHS High Grade		HGX PLUS T-60 HGX PLUS T-12 HGX PLUS T-16	PM T-30 PM T-60 PM T-120	AVPRO T-60 AVPRO T-120 AVPRO T-160			
1/2" VHS Broadcast Pro Grade		T-30BQ T-60BQ T-120BQ	BA T-30 BA T-60 BA T-120	AVMAS T-120			199 T-30 199 T-60 199 T-120

DVD-R Plus

Recordable DVD, the Write-Once Format of the Future.

FEATURES
- High Capacity 4.7 GB – 8X Speed
- Over 7 Times the Capacity of CD-R
- Secure Unalterable Data
- Random Access
- Superior Archival Life

APPLICATIONS
- Multimedia Presentations (Audio, Video, and Data)
- Testing and Development
- Large File Storage
- Data Transfer
- Archival Storage

COMPATIBILITY
- Write Compatible with DVD-R General Recorders
- Read Compatible with Most Current-Generation DVD Playback Devices Including: DVD-R (General and Authoring) Recorders, DVD-RAM drives, DVD-ROM and DVD-Video Players
- Printable-Surface DVD-Rs Compatible with CD/DVD Ink-Jet and Thermal Printers

SPECIFICATIONS

Model	
Description	DVD-R Plus Series
Maxell Item #	635032
Carton Quantity	100
Recording Capacity	4.7 GB
Laser Wavelength Recording	650 nm
Playback	650 nm/635 nm
Track Pitch	0.74 µm
Minimum Data Pit Length	0.40 µm
Sector Size	2048 Bytes
Data Transfer Rate	11.08 Mbps (1x)
	22.16 Mbps (2x)
	44.32 Mbps (8x)
Reference Scanning Velocity	3.49 m/s
Substrate Material	Polycarbonate
Recording-Layer Materials	Organic dye/metal reflective layer
Disc Diameter	120 mm
Disc Thickness	1.2 mm bonded (0.6 mm x 2)
Operating Environment	23°F – 131°F (-5°C – 55°C), 3% – 85% RH (no condensation)
Storage Environment	-4°F – 122°F (-20°C – 50°C), 5% – 90% RH (no condensation)

DVD-R Plus
Series – Printable

Printable Recordable DVD, the Write-Once Printable Format of the Future.

FEATURES
- High Capacity 4.7 GB – 8X Speed
- Over 7 Times the Capacity of CD-R
- Secure Unalterable Data
- Superior Recording-Layer Technology
- Random Access
- Long Archival Life

APPLICATIONS
- Multimedia Presentations (Audio, Video, and Data)
- Testing and Development
- Large File Storage
- Data Transfer
- Longtime Archival Storage

COMPATIBILITY
- Write Compatible with DVD-R General Recorders
- Read Compatible with Most Current-Generation DVD Playback Devices Including: DVD-R (General and Authoring) Recorders, DVD-RAM drives, DVD-ROM and DVD-Video Players
- Printable-Surface DVD-Rs Compatible with CD/DVD Ink-Jet and Thermal Printers

SPECIFICATIONS

Recording Capacity	4.7 GB
Laser Wavelength Recording	650 nm
Playback	650 nm/635 nm
Track Pitch	0.74 µm
Minimum Data Pit Length	0.40 µm
Sector Size	2,048 Bytes
Data Transfer Rate	11.08 Mbps (1x)
	22.16 Mbps (2x)
	44.32 Mbps (4x)
	88.64 Mbps (8x)
Reference Scanning Velocity	3.49 m/s
Substrate Material	Polycarbonate
Recording-Layer Materials	Organic dye/metal reflective layer
Disc Diameter	120 mm
Disc Thickness	1.2 mm bonded (0.6 mm x 2)
Operating Environment	23°F – 131°F (-5°C – 55°C), 3% – 85% RH (no condensation)
Storage Environment	-4°F – 122°F (-20°C – 50°C), 5% – 90% RH (no condensation)

LINEUP

Item #	Model	Description	Spindle Pak	Carton Quantity
	Plus Series	**8x Speed**		
635061	DVD-RPW	White Matte Ink-Jet (Hub Printable)	50	4
635078	DVD-RSS	Silver Shiny Thermal (Hub Printable)	50	4
635079	DVD-RTW	White Shiny Thermal (Hub Printable)	50	4
635080	DVD-RPS	Silver Matte Ink-Jet (Hub Printable)	50	4
635062	DVD-RSS	Silver Shiny Thermal	50	4
635063	DVD-RTW	White Shiny Thermal	50	4
	Image Maker	**16x Speed**		
638032	DVD-RPW	White Matte Ink-Jet (Hub Printable)	100	4

DVD+R General Purpose

A Recordable DVD Designed for High-Capacity Data Storage and High-Quality Video Recording.

HIGH CAPACITY
• 4.7 GB (Over 7 Times the Capacity of CD-R)
• 120/240 Minutes

FEATURES
• Supports up to 16X Write Speeds
• Same Recording Method as CD-R
• Secure Unalterable Data
• Random-Access Data Retrieval
• Long Archival Life

APPLICATIONS
• Multimedia Storage (Data, Music, and Video)
• Large File Storage
• Data Transfer
• Massive Archival Storage

COMPATIBILITY
DVD+R discs are compatible with second-generation DVD+RW/R drives/recorders. Once recorded, DVD+R discs are read compatible with DVD-ROM, DVD-Audio, and DVD-Video playback devices.

SPECIFICATIONS

Model		DVD+R 4.7
Item #		639000
Carton Quantity		50
Recording Capacity		4.7 GB
Laser Wavelength	Recording	650 nm
	Playback	650 nm
Track Pitch		0.74 µm
Sector Size		2048 Bytes
Data Transfer Rate		11.08 Mbps (1X); 26.59 Mbps (2X)
Substrate Material		Polycarbonate
Recording-Layer Materials		Organic dye/metal reflective layer
Disc Diameter		120 mm
Disc Thickness		1.2 mm bonded (0.6 mm x 2)
Operating Environment		23°F – 131°F (-5°C – 55°C), 3% – 95% RH (no condensation)
Storage Environment		14°F – 131°F (-10°C – 55°C), 3% – 90% RH (no condensation)

DVD-RW

A Rewritable DVD…Record, Erase, and Re-Record Your Own DVD Disc.

HIGH CAPACITY
• 4.7 GB
• 120 Minutes

FEATURES
• 1,000 Read/Write Cycles
• Supports "Disk-at-Once" or "Incremental" Writing
• Superior Recording-Layer Technologies
• Noise-Free Playback
• Random-Access Data Retrieval
• Long Archival Life

APPLICATIONS
• Multimedia Storage (Data, Music, and Video)
• Large File Storage
• Hard-Drive Backup
• Massive Archival Storage

COMPATIBILITY
DVD-RW discs are compatible with DVD-R/RW drives/recorders. Once recorded, DVD-RW discs can be read by later-generation DVD-ROM playback devices.

SPECIFICATIONS

Model	DVD-RW
Item #	635114
Carton Quantity	50
Recording Capacity	4.7 GB
Type (Sides Used)	Single-sided
Laser Wavelength	650 nm
Aperture of Objective Lens	0.6
Track Pitch	0.74 µm
Minimum Data Bit Length	0.40 µm
Sector Size	2,048 Bytes
Data Transfer Rate	11.08 Mbps
Substrate Material	Polycarbonate
Recording-Layer Materials	Phase-change recording materials
Disc Diameter	120 mm
Disc Thickness	1.2 mm bonded (0.6 mm x 2)
Operating Environment	23°F – 131°F (-5°C – 55°C), 3% – 95% RH (no condensation)
Storage Environment	-4°F – 122°F (-20°C – 50°C), 5% – 90% RH (no condensation)

DVD+RW

A Rewritable DVD, Suitable for Both Random Data Recording and Real-Time Video Recording.

HIGH CAPACITY
• 4.7 GB
• 120/240 Minutes

FEATURES
• Over 1,000 Read/Write Cycles
• Supports up to 4X Write Speeds
• Quick Formatting
• Sequential Plus Random-Access Recording
• Full Playback Compatibility
• Long Archival Life

APPLICATIONS
• Multimedia Storage (Data, Music, and Video)
• Large File Storage
• Video Editing
• Data Transfer
• Massive Archival Storage

COMPATIBILITY
DVD+RW discs are compatible with DVD+RW drives/recorders.
Once recorded, DVD+RW discs are read compatible with DVD-ROM playback devices.

SPECIFICATIONS

Model	DVD+RW
Item #	634012
Carton Quantity	50
Recording Capacity	4.7 GB
Type (Sides Used)	Single-sided
Laser Wavelength	650 nm
Aperture of Objective Lens	0.65
Track Pitch	0.74 µm
Minimum Data Bit Length	0.40 µm
Sector Size	2,048 Bytes
Data Transfer Rate	26.6 Mbps (max)
Substrate Material	Polycarbonate
Recording-Layer Materials	Phase-change recording materials
Disc Diameter	120 mm
Disc Thickness	1.2 mm bonded (0.6 mm x 2)
Operating Environment	23°F – 131°F (-5°C – 55°C), 3% – 85% RH (no condensation)
Storage Environment	14°F – 131°F (-10°C – 55°C), 3% – 90% RH (no condensation)

DVD-RAM

Rewritable DVD-RAM, the Next Generation's Standard for High-Capacity Removable Media.

HIGH CAPACITY
• 4.7 GB

FEATURES
• 100,000 Read/Write Cycles
• 30-Year Archival Life

APPLICATIONS
• Multimedia Storage (Data, Music, and Video)
• Software Title Production
• Internet Downloads
• Data Transfer
• Massive Archival Storage

COMPATIBILITY
Single-sided DVD-RAM discs are removable from the cartridge and can be read in later-generation RAM-readable DVD-ROM devices. Double-sided discs are not removable from the cartridge and thus are compatible only with DVD-RAM devices.

SPECIFICATIONS

Model	DVD-RAM 4.7 (Jewel Case)	Type II DVD-RAM 4.7 – 5X (Jewel Case)
Item #	636070	636082
Carton Quantity		50
Recording Capacity	4.7 GB	4.7 GB
Type (Sides Used)	Single-sided	
Laser Wavelength	650 nm	
Aperture of Objective Lens	0.6	
Track Pitch	0.74 µm	0.62 µm
Minimum Data Bit Length	0.41 µm	0.42 µm
Sector Size	2,048 Bytes	
Data Transfer Rate	33.24 Mbps	55.4 Mbps
Substrate Material	Polycarbonate	
Recording-Layer Materials	Phase-change recording materials	
Cartridge Dimensions	4.88"x5.38"x0.38"	
Operating Environment	41°F – 131°F (5°C – 60°C), 3% – 85% RH (no condensation)	

CD-R

Universally Compatible Write-Once Recordable Compact Discs.

CAPACITY
• Up to 700 MB/80 Minutes

FEATURES
• 48X Certified
• Premium-Quality Recording Surface
• Unalterable Data
• Random-Access Data Retrieval
• Noise-Free Playback

APPLICATIONS
• Multimedia Storage
• Low-Volume Duplication
• Data Exchange
• Digital Audio Mastering
• Data Backup and Archival

COMPATIBILITY
Compatible with high-speed CD Recorders up to 48X. Read compatible with CD-ROM and DVD-ROM playback devices.

SPECIFICATIONS

Model	CD-R700	CD-RP700	CD-RPW700
Description	Branded disc with defined writing area	Printable silver matte surface	Printable white matte surface
Item #	648201	648711	648721
Carton Quantity	100		
Item # 100-Piece Spindle		648710	648720
Carton Quantity	4		
Recording Capacity	700 MB	700 MB	700 MB
Recording Time	80 min	80 min	80 min
Recording Film Material	Organic dye		
Substrate Material	Polycarbonate		
Track Pitch	1.6 µm		
Recording Area (User Area)	50 ~ 116 mm		
Dimensions			
External Diameter	120 mm		
Internal Diameter	15 mm		
Overall Thickness	1.2 mm		

Model	CD-RB700	CD-RBS700
Description	Blank shiny gold surface	Blank shiny silver surface
Item #	648731	648741
Carton Quantity	100	
Item # 100-Piece Spindle	648730	648740
Carton Quantity	4	
Recording Capacity	700 MB	700 MB
Recording Time	80 min	80 min
Recording Film Material	Organic dye	
Substrate Material	Polycarbonate	
Track Pitch	1.6 µm/1.5 µm	
Recording Area (User Area)	50 ~ 116 mm	
Dimensions:		
External Diameter	120 mm	
Internal Diameter	15 mm	
Overall Thickness	1.2 mm	

CD-RW

A Rewritable Optical Disc That Works Like a Floppy Diskette.

CAPACITY
• 650 MB
• 74 Minutes

FEATURES
• Supports 1X – 4X Write Speeds
• 1,000 Rewrite Cycles
• Premium-Quality Recording Surface
• Noise-Free Playback
• Random-Access Data Retrieval
• Conforms to *Orange Book* Part III Specifications

APPLICATIONS
• Routine Data Backup
• Authoring/Editing Multimedia Projects
• Large File Storage
• Data Exchange

COMPATIBILITY
Write compatible with 1X – 4X CD-RW drives. Read compatible with multiread CD-ROM and DVD-ROM playback devices.

SPECIFICATIONS

Model	CD-RW
Item #	630010
Carton Quantity	100
Recording Capacity	700 MB
Recording Time	80 min
Recording Area (User Area)	50 ~ 116 mm
Recording Speed	1X – 4X
Overwrite Cyclability	1000 times
Recording Film Material	Organic dye
Track Pitch	1.6 µm
Substrate Material	Polycarbonate
Recording-Layer Material	Phase-change recording material
Disc Life	20+ years
Operating Environment	41°F – 104°F (5°C – 40°C), 5% – 85% RH (no condensation)
Storage Environment	68°F – 72°F (20°C – 22°C), 40% RH (no condensation)

CD-RW *High Speed*

A Higher-Performance Rewritable CD Ideal for Authoring and Editing Multimedia Projects.

PREMIUM FEATURES
- 650 MB Capacity
- Supports 4X – 12X Write Speeds
- Revolutionary Recording-Layer Technologies
- Enhanced Overwrite Cyclability
- Noise-Free Playback
- Superior Archival Life
- Conforms to *Orange Book* Part III, Volume 2, Standard
- Distinctive Color Surface

APPLICATIONS
- Routine Data Backup
- Authoring/Editing Multimedia Projects
- Large File Storage
- Data Exchange

COMPATIBILITY
Write compatible with 4X – 12X High Speed CD-RW drives. Read compatible with multiread CD-ROM and DVD-ROM playback devices.

SPECIFICATIONS

Model	CD-RW High Speed
Item #	630020
Carton Quantity	100
Recording Capacity	700 MB
Recording Time	80 min
Recording Area (User Area)	50 ~ 116 mm
Recording Speed	4X – 12X
Overwrite Cyclability	1,000 times
Track Pitch	1.6 µm
Substrate Material	Polycarbonate
Recording-Layer Material	Phase-change recording material
Reflectance (Rtop)	15% - 25%
Track Eccentricity	<70 µm
Disc Life	20+ years
Disc Diameter	80 mm/3"
Dimensions	
External Diameter	120 mm/4.75"
Internal Diameter	15 mm/0.59"
Thickness	1.2 mm/0.05"
Operating Environment	41°F – 104°F (5°C – 40°C), 5% – 85% RH (no condensation)
Storage Environment	68°F – 72°F (20°C – 22°C), 40% RH (no condensation)

DLTtape™ Cartridges

The "Industry Standard" for High-Capacity Tape Storage.

HIGH CAPACITY
• Up to 80 GB with Data Compression

FEATURES
• Patented Ceramic-Coated Metal Particle Tape
• Data Transfer Rates up to 12 MB/Second
• Rated at 500,000 to 1,000,000 Tape Passes
• Sophisticated Error Detection and Correction
• Superior Archival Life
• Clear Plastic Case for Easy Bar Code Scanning
• Factory Security Seal

APPLICATIONS
• Hierarchical Storage Management
• Backing Up LAN Servers, Workstations, and Midrange Systems
• Archival Storage
• Library Automation
• DVD Mastering

SPECIFICATIONS

Model	Unit	DLTtape IV			DLT Cleaning Tape
Item #			183270		183770
Carton Quantity			20		
Drive Systems		DLT-4000	DLT-7000	DLT-8000	All Maxell items
Native Capacity		20	35	40	Up to
Compressed	GB	40	70	80	20 cleanings
Drive Transfer Rate	MB/se	1.5-3.0	5.0-10.0	6.0-12.0	–
Tape Length	Feet		1828		–
Coercivity	Oe		1850		–
Tape Type			Metal particle 2		–
Tape Width			1/2"		
Tape Life	Years		30+		–
Tape Durability	Passes		1,000,000		–
Operating		50°F — 104°F (10°C — 40°C),			
Environment		20% — 80% RH (no condensation)			
Storage		60°F — 90°F (16°C — 32°C),			
Environment		20% — 80% RH (no condensation)			
Archival		64°F — 82°F (18°C — 28°C),			
Environment		40% — 60% RH (no condensation)			

Super DLTtape™ Cartridges

Broadening the "Industry Standard" for High-Capacity Tape Storage... Today and Tomorrow.

HIGH CAPACITY
• Up to 160 GB Native Capacity

FEATURES
• Native Transfer Rates up to 16 MB/Second
• Patented Ceramic-Coated Metal Particle Tape
• Durable Cartridge Design
• Rated at 1,000,000 Tape Passes
• Sophisticated Error Detection and Correction
• Superior Archival Life
• Factory Security Seal
• Clear Plastic Case for Easy Bar Code Scanning

APPLICATIONS
• Server Backup and Restore
• Data Archiving
• Library Automation
• Suitable for Entry-Level Departmental Servers to Complex Enterprise-Class Storage Area Networks

SPECIFICATIONS

Model	DLTS4	SDLT-II	SDLT-I		SDLT-CL
Item #	184030	183715	183700		183710
Carton Quantity	20				
Drive Systems	DLT-S	SDLT 600	SDLT 220	SDLT 320 & SDLT 320	SDLT 600/ 320/200
Capacity	800 GB/ 1.6 TB	300 GB/ 660 GB	110 GB/ 220 GB	160 GB/ 320 GB	Up to 20 cleanings
Drive Transfer Rate	60/120MB/s	36/72MB/s	11/22 MB/s	16/32 MB/s	–
Tape Length	2,100 ft (640 m)	2,066 ft (630 m)	1,827 ft (557 m)		–
Coercivity	2,700 Oe	2,600 Oe	1,900 Oe	–	–
Tape Type	Metal Particle				
Tape Width	1/2"				
Tape Life	30+ years				
Tape Durability	1,000,000 passes			–	
Operating Environment	50°F – 104°F (10°C – 40°C), 20% – 80% RH (no condensation)				
Storage Environment	60°F – 90°F (16°C – 32°C), 20% – 80% RH (no condensation)				
Archival Environment	64°F – 82°F (18°C – 28°C), 40% – 60% RH (no condensation)				

LTO Ultrium Cartridges

Simplifying the Complex Enterprise and Network Tape Storage Industry.

HIGH CAPACITY
• Up to 1.6 TB in a Single Cartridge

FEATURES
• Transfer Rates up to 240 MB/Second
• Patented Ceramic-Coated Metal Particle Tape
• 1,000,000 Tape Passes
• Superior Archival Life
• Clear Plastic Case for Easy Bar Code Scanning
• Maxell Universal Cleaning Cartridge is Compatible with ALL Drives

APPLICATIONS
• Data Interchange
• Network Server Backup, Restore, and Archival
• Library Automation
• Near-Online Data Access

SPECIFICATIONS								LTO Cleaning Cartridge
Model	LTO 1	LTO 2	LTO 3	LTO 3 WORM	LTO 4	LTO 4 WORM	LTO 5	
item #	183900	183850	83900	183950	183906	183907	229323	183804
Carton Quantity	20							
Recording Capacity	100/200 GB	200/400 GB	400/800 GB		800 GB/1.6 TB		1.5TB/3.0TB	50+ cleaning passes
Transfer Rate								
Native	10/20 MB/s	20/40 MB/s	40/80 MB/s		120/240 MB/s		140/280MB/s	–
Compressed								–
Coercivity	1,950 Oe	2,450 Oe	2,700 Oe				2850 Oe	–
Tape								
Length	1,998 ft. (609 m)		2,230 ft. (680 m)		2,690 ft. (820 m)		2,775 ft. (846m)	–
Width	1/2" (12.65 m)							
Thickness	9 µm		8 µm		6.6 µm		6.4 µm	9 µm
Tape Type	Patented Ceramic-Coated Metal Particle							
Cartridge Dimensions	4.0"x4.1"x8" (102 mmx105.4x21.5 mm)							
Archival Storage	30+ years							–
Tape Durability Rate	1,000,000 + head passes							
Operating Environment	50°F – 113°F (10° – 45°C), 10 – 80% RH (no condensation)							
Storage Environment	61°– 90°F (16°–32°C)		61° – 95°F (16°–35°C)					61°–90°F (16°–35°C)
	20% – 80% RH (no condensation)							
Archival Environment	61° – 77°F (16°–25°C) 20% – 50% RH (no condensation)							–

*Actual number of cleaning cycles achieved is drive dependent

DDS/DAT Cartridges

Advanced DDS and DAT Solutions
for High-Capacity Data Storage.

Maxell features an advanced cartridge design to ensure contamination-free recording combined with superior data-grade tape for a minimal dropout rate.

Maxell's patented ceramic-coating process protects the fine metal particles in the magnetic layer of the tape from heat, humidity, and oxidation. The result is a tape durable enough to withstand at least 2,000 passes with an archival life of up to 30 years.

Maxell 4 mm DDS cartridges feature Maxell's unique Safe-T-Lock™ hub-locking mechanism, which ensures proper tape tension and prevents misthreading during the initial loading stage.

SPECIFICATIONS

	Model	Item Number	Carton Quantity	Tape Length (m)	Nominal Capacity	Nominal Coercivity (Oe)
	HS-4/150s–DDS-4	200028	50	155	20 GB	2,390
	HS-4/125s–DDS-3	200025	50	124.5	12 GB	2,390
4 mm Helical Scan Data Cartridges	HS-4/120s–DDS-2	200110	50	124.5	4 GB	1,700
	HS-4/90s–DDS-1	331910	50	91.5	2 GB	1,530
	HS-4/CL (cleaning cartridge)	186990	50	Good for up to 40 cleanings		

The DDS logo is a trademark of Digital Storage Group

	Model	Item Number	Carton Quantity	Tape Length (m)	Nominal Capacity	Nominal Coercivity (Oe)
DDS/DAT Cartridges	DAT-72	200200	50	170	36 GB	2,390
	DAT-160	233010	100	155	80 GB	2,390
	DAT-160 WORM	230020	100	155	80 GB	2,390
	DAT-160 Cleaner Cartridge II	230030	100	2,000 passes or 100 Full Backups		

Cartridge Memory Analyzers

- Calculates the projected reliability of the tape
- Identifies "problem" tape cartridges
- Detects problematic drives
- USB Bus powered, not external power required
- Compatible with all current and future generations of LTO tape

LINEUP

Item #	Description	Carton Quantity
183100	LTO Cartridge Memory Analyzer	1
183400	LTO Cartridge Memory Analyzer w/Barcode	1

4 Bay – 5 Bay Towers

The iVDR 4 and 5 Bay Storage Towers are another innovative storage solution from Maxell that offers superb customization and flexibility to fit any storage application that you can ever imagine; all in a compact footprint.

- Great for variety of storage applications – external RAID storage, Video storage, Server storage
- Connect to any system via eSATA (connecting cable included) or USB port
- Install either iVDR-EX cartridges, 2.5" / 3.5" SATA hard drives, SSD of any capacity or a combination of these devices in various mixes
- Hard drives are installed into drive trays that can be added or removed like tape from each drive bay
- Standard SATA drives and iVDR-EX cartridges can be configured to appear as individual drives to any system – requires connecting to a HPM compatible eSATA port or USB port.

SPECIFICATIONS

	4 Bay Tower	5 Bay Tower
Maximum # of iVDR-EX Cartridges, SATA or SSD Drives	4 Bay Tower	5 Bay Tower
Supported Storage Devices	iVDR-EX Cartridge, 2.5" or 3.5" SATA I / II / III Hard Drive or SSD	
Connection to System	1 – eSATA or USB 3.0 / 2.0 connection with USB 3.0 eSATAp adapter	
Supported Operating Systems	Connect to any system (OS independent)	
80 x 80 mm cooling fans	1	
Power Supply	220 Watts 110/220V input	340 Watts 110/220V input
Weight	15 lb (6.8 kg)	24 lb (10.9 kg)
Dimension (W x D x H)	8.19 x 12.94 x 8 inch	7.5 x 16 x 10.4 inch
Operating Humidity	0°C – 50°C, 15% – 90% RH	
Operating Temperature	20% – 80%, 0% – 95% RH non-condensing	
Warranty	One Year	

LINEUP

Item #	Description	Carton Quantity
	4 BAY TOWERS	
261800	4 Bay Tower – 4 iVDR Trays	1
261801	4 BayTower – 4 SATA Trays	1
261802	4 Bay Tower – 1 iVDR – 3 SATA Trays	1
261803	4 Bay Tower – 2 iVDR – 2 SATA Trays	1
261804	4 Bay Tower – 3 iVDR – 1 SATA Tray	1
	5 BAY TOWERS	
261900	5 Bay Tower – 5 iVDR Trays	1
261901	5 Bay Tower – 5 SATA Trays	1
261902	5 Bay Tower – 1 iVDR – 4 SATA Trays	1
261903	5 Bay Tower – 2 iVDR – 3 SATA Trays	1
261904	5 Bay Tower – 3 iVDR – 2 SATA Trays	1
261905	5 Bay Tower – 4 iVDR – 1 SATA Tray	1

9 Bay Towers – 9 Bay Racks

The iVDR 9 Bay Towers and 9 Bay Racks are another innovative storage solution from Maxell that offers superb customization and flexibility to fit any storage application that you can ever imagine; all in a compact footprint.

- Connect to any system via 2 eSATA or USB port
- Install either iVDR-EX cartridges, 2.5" / 3.5" SATA hard drives, SSD of any capacity or a combination of these devices in various mixes
- Hard drives are installed into drive trays that can be added or removed like tape from each drive bay.
- Standard SATA drives and iVDR-EX cartridges can be configured to appear as individual drives to any system – requires connecting to a HPM compatible eSATA port or USB port
- Great for variety of storage applications – external RAID storage, Video storage, Server storage

SPECIFICATIONS

	9 Bay Tower	9 Bay Rack
Maximum # of iVDR-EX Cartridges, SATA or SSD Drives	9 Bay Tower	9 Bay Rack
Supported Storage Devices	iVDR-EX Cartridge, 2.5" or 3.5" SATA I / II / III Hard Drive or SSD	
Connection to System	2 – eSATA or USB 3.0 connection with USB 3.0 eSATAp adapter	
Supported Operating Systems	Connect to any system (OS independent)	
80 x 80 mm cooling fans	2	
Power Supply	400 Watts 110/220V input	500 Watts 110/220V input
Weight	32 lb (14.5 kg)	51 lb (23.13 kg)
Dimension (W x D x H)	7.5 x 16.7 x 17.2 inch	19 x 20.1 x 7 inch
Operating Humidity	0°C – 50°C, 15% – 90% RH	
Operating Temperature	20% – 80%, 0% – 95% RH non-condensing	
Warranty	One Year	

LINEUP

Item #	Description	Carton Quantity
	9 BAY TOWERS	
262000	9 Bay Tower – 9 iVDR Trays	1
262001	9 Bay Tower – 9 eSATA Trays	1
262002	9 Bay Tower – 1 iVDR – 8 SATA Trays	1
262003	9 Bay Tower – 2 iVDR – 7 SATA Trays	1
262004	9 Bay Tower – 3 iVDR – 6 SATA Trays	1
262005	9 Bay Tower – 4 iVDR – 5 SATA Trays	1
262006	9 Bay Tower – 5 iVDR – 4 SATA Trays	1
262007	9 Bay Tower – 6 iVDR – 3 SATA Trays	1
262008	9 Bay Tower – 7 iVDR – 2 SATA Trays	1
262009	9 Bay Tower – 8 iVDR – 1 SATA Tray	1
	9 BAY RACKS	
263000	9 Bay Rack – 9 iVDR Trays	1
263001	9 Bay Rack – 9 eSATA Trays	1
263002	9 Bay Rack – 1 iVDR – 8 SATA Trays	1
263003	9 Bay Rack – 2 iVDR – 7 SATA Trays	1
263004	9 Bay Rack – 3 iVDR – 6 SATA Trays	1
263005	9 Bay Rack – 4 iVDR – 5 SATA Trays	1
263006	9 Bay Rack – 5 iVDR – 4 SATA Trays	1
263007	9 Bay Rack – 6 iVDR – 3 SATA Trays	1
263008	9 Bay Rack – 7 iVDR – 2 SATA Trays	1
263009	9 Bay Rack – 8 iVDR – 1 SATA Tray	1

4 Bay Cipher – 5 Bay Cipher Towers

The iVDR Cipher Raid Towers are a perfect solution from Maxell for applications that require reliable storage with redundancy and also the best data security protection.

- Great for variety of storage applications – external storage, Video storage, Server storage
- Connect to any system via eSATA (connecting cable included) or USB port
- AES 256-bit full disk hardware encryption
- Install either iVDR-EX cartridges, 2.5" / 3.5" SATA hard drives, SSD of any capacity or a combination of these devices in various mixes
- iVDR-EX cartridge support is added or removed via the iVDR drive tray (part # 268000)
- Hard drives are installed into drive trays that can be added or removed like tape from each drive bay
- Individual drive support only. Drives can be set to RAID group with software utility from a PM compatible controller or from the OS (eSATA port must be Port Multiplier compatible)
- Supported OS – Windows 2000 or later release, MAC OS X and above, Linux kernel 2.4 and above

SPECIFICATIONS

Maximum # of iVDR-EX Cartridges, SATA or SSD Drives	4 Bay Cipher Towers	5 Bay Cipher Towers
Data Security	AES 256-bit full disk hardware encryption	
Supported Storage Devices	iVDR-EX Cartridge, 2.5" or 3.5" SATA I / II / III Hard Drive or SSD	
Connection to System	1 – eSATA or USB 3.0 / 2.0 connection with USB 3.0 eSATAp adapter	
Supported Operating Systems	Windows 2000 or later release, MAC OS X and above, Linux kernel 2.4 and above	
80 x 80 mm cooling fans	1	
Power Supply	220 Watts 110/220V input	340 Watts 110/220V input
Weight	15 lb (6.8 kg)	24 lb (10.9 kg)
Dimension (W x D x H)	8.19 x 12.94 x 8 inch	7.5 x 16 x 10.4 inch
Operating Humidity	0°C – 50°C, 15% – 90% RH	
Operating Temperature	-20°C – 85°C, 0% – 95% RH non-condensing	
Warranty	One Year	

LINEUP

Item #	Description	Carton Quantity
	4 BAY CIPHER TOWERS	
264000	4 Bay Cipher Tower – 4 iVDR Trays	1
264001	4 Bay Cipher Tower – 4 SATA Trays	1
264002	4 Bay Cipher Tower – 1 IVDR – 3 SATA Trays	1
264003	4 Bay Cipher Tower – 2 iVDR – 2 SATA Trays	1
264004	4 Bay Cipher Tower – 3 iVDR – 1 eSATA Tray	1
	5 BAY CIPHER TOWERS	
265000	5 Bay Cipher Tower – 5 iVDR Trays	1
265001	5 Bay Cipher Tower – 5 eSATA Trays	1
265002	5 Bay Cipher Tower – 1 iVDR – 4 SATA Trays	1
265003	5 Bay Cipher Tower – 2 iVDR – 3 SATA Trays	1
265004	5 Bay Cipher Tower – 3 iVDR – 2 SATA Trays	1
265005	5 Bay Cipher Tower – 4 iVDR – 1 SATA Tray	1

iVDR Hard Drive Duplicators

Maxell's new family of iVDR hard drive duplicators are more than just a simple, fast and reliable tool for making an exact copy of any hard drive. Offering a choice of two models in various configurations, these duplicators can be used for copying from a source drive of any type, from iVDR-EX cartridges, *2.5" to 3.5" hard drive or *SSD of either SATA or IDE interface to a target drive of any kind.

- Great for cloning an iVDR-EX cartridge or a single hard drive or for making a back up another iVDR-EX cartridge or hard drive
- OS independent
- Copy up to 1.5Gbps depending on the performance of the iVDR-EX cartridge or hard drive
- Source and destination drives are added or removed like tape cartridges from each drive bay with no special tools required
- Completely standalone, one to one, hard drive duplicator with no additional hardware or software required
- LCM control module provides a rich set of robust advanced configuration options

2.5" to 3.5" SATA Converter tray available.

SPECIFICATIONS

Maximum # of iVDR-EX Cartridges, SATA or SSD Drives	1:1 Duplicator	1:5 Duplicator
Supported System Trays	iVDR or SATA drive tray (any tray can be used as source or target)	
Writing Mode	Sector to Sector	
LCD display with functional control panel	No computer or software required	
Low noise High CFM ball bearing cooling fan	1	
Power Supply	80 Watts 110/220V auto-sense input	400 Watts 110/220V auto-sense input
Weight	13.75 lb (6.24 kg)	27.3 lb (12.38 kg)
Dimension (W x D x H)	7.48 x 10.63 x 6.5 inch	7.48 x 10.63 x 6.5 inch
Operating Environment	0°C – 50°C, 15% – 90% RH	
Operating Environment	20°C – 50°C, 0% – 95% RH non-condensing	
Warranty	One Year	

LINEUP

Item #	Description	Carton Quantity
	iVDR 1-1 Duplicators	
266000	iVDR HDU – 2 iVDR Trays	1
266001	IVDR HDU – 2 SATA Trays	1
266002	iVDR HDU – 1 iVDR – 1 SATA tray	1
	iVDR 1-5 Duplicators	
266100	iVDR HDU 5 – 6 iVDR Trays	1
266101	iVDR HDU 5 – 6 SATA Trays	1
266102	iVDR HDU 5 – 5 iVDR – 1 SATA Tray	1
266103	iVDR HDU 5 – 4 iVDR – 2 SATA Trays	1
266104	iVDR HDU 5 – 3 iVDR – 3 SATA Trays	1
266105	iVDR HDU 5 – 2 iVDR – 4 SATA Trays	1
266107	iVDR HDU 6 – 1 iVDR – 5 SATA Trays	1

HDD Diamond
Hard Drive Duplicators

Maxell's new family of HDD Diamond duplicators are more than just a simple, fast and reliable tool for making an exact copy of any hard drive. Offering a choice of two models in various configurations, these duplicators can be used for copying from a source drive of any type, from iVDR-EX cartridges, *2.5" to 3.5" hard drive or *SSD of either SATA or IDE interface to a target drive of any kind.

- Great for cloning an iVDR-EX cartridge or a single hard drive or for making a back up another iVDR-EX cartridge or hard drive
- OS independent
- Copy up to 1.5 Gbps depending on the performance of the iVDR-EX cartridge or hard drive
- Source and Destination drives are added or removed like tape cartridges via a drive enclosure from each drive bay. Source drive enclosure and target drive enclosure are interchangeable
- Completely standalone, one to one, hard drive duplicator with no additional hardware or software required
- LCM control module provides a rich set of robust advanced configuration options

2.5" to 3.5" SATA Converter tray available.

SPECIFICATIONS

	Diamond 1:1 Duplicator	Diamond 1:5 Duplicator
Maximum # of iVDR-EX Cartridges, SATA or SSD Drives		
Supported System Trays	Source tray – Diamond iVDR, Diamond IDE or Diamond SATA drive tray Target tray – iVDR or SATA tray	
Writing Mode	Sector to Sector	
LCD display with functional control panel	No computer or software required	
Low noise High CFM ball bearing cooling fan	1	
Power Supply	80 Watts 110/220V auto-sense input	400 Watts 110/220V auto-sense input
Weight	13.75 lb (~6.24 kg)	27.3 lb (12.38 kg)
Dimension (W x D x H)	7.48 x 10.63 x 6.5 inch	7.5 x 16.7 x 17.2 inch
Operating Environment	0°C – 50°C, 15% – 90% RH	
Storage Environment	-20°C – 50°C, 0% – 95% RH non-condensing	
Warranty	One Year	

HDD Diamond
Hard Drive Duplicators

LINEUP

Item #	Description	Carton Quantity
	iVDR 1-1 Duplicators (Diamond) IDE Source	
266010	iVDR HDD – 1 Diamond IDE Source – 1 iVDR Tray	1
266011	IVDR HDD – 1 Diamond IDE Source – 1 SATA Tray	1
	iVDR 1-1 Duplicators (Diamond) IVDR Source	
266012	iVDR HDD – 1 iVDR Diamond Source – 1 iVDR Tray	1
266013	IVDR HDD – 1 iVDR Diamond Source – 1 SATA Tray	1
	iVDR 1-1 Duplicators (Diamond) SATA Source	
266014	iVDR HDD – 1 Diamond SATA Source – 1 iVDR Tray	1
266015	IVDR HDD – 1 Diamond SATA Source – 1 SATA Tray	1
	iVDR 5-1 Duplicators (Diamond) IDE Source	
266200	iVDR HDD 5 – IDE Source – 5 iVDR Trays	1
266201	iVDR HDD 5 – IDE Source – 5 SATA Trays	1
266202	iVDR HDD 5 – IDE Source – 4 iVDR – 1 SATA Tray	1
266203	iVDR HDD 5 – IDE Source – 3 iVDR – 2 SATA Trays	1
266204	iVDR HDD 5 – IDE Source – 2 iVDR – 3 SATA Trays	1
266205	iVDR HDD 5 – IDE Source – 1 iVDR – 4 SATA Trays	1
	iVDR 5-1 Duplicators (Diamond) IVDR Source	
266300	iVDR HDD 5 – IVDR Source – 5 iVDR Trays	1
266301	iVDR HDD 5 – IVDR Source – 5 SATA Trays	1
266302	iVDR HDD 5 – IVDR Source – 4 iVDR – 1 SATA Tray	1
266303	iVDR HDD 5 – IVDR Source – 3 iVDR – 2 SATA Trays	1
266304	iVDR HDD 5 – IVDR Source – 2 iVDR – 3 SATA Trays	1
266305	IVDR HDD 5 – IVDR Source – 1 iVDR – 4 eSATA Trays	1
	iVDR 5-1 Duplicators (Diamond) SATA Source	
266400	iVDR HDD 5 – SATA Source – 5 iVDR Trays	1
266401	iVDR HDD 5 – SATA Source – 5 SATA Trays	1
266402	iVDR HDD 5 – SATA Source – 4 iVDR – 1 SATA Tray	1
266403	iVDR HDD 5 – SATA Source – 3 iVDR – 2 SATA Trays	1
266404	iVDR HDD 5 – SATA Source – 2 iVDR – 3 SATA Trays	1
266405	IVDR HDD 5 – SATA Source – 1 iVDR – 4 SATA Trays	1

iVDR External Drive Cartridge with eSATA/USB 3.0

The iVDR External Drive enclosure from Maxell is one of the most advanced in the market today featuring both SuperSpeed *USB 3.0 and eSATA interface. The iVDR External Drive Cartridge allows you to connect an iVDR-EX cartridge to any computer equipped with either a high speed eSATA, USB 3.0 port, or the convenience of the USB 2.0 port that is available in a variety of computers.

- Connect iVDR-EX cartridges to computer via *USB 3.0 or eSATA port
- Maximum transfer rate:
    - USB 1.1 – 12 Mbps
    - USB 2.0 high speed – 480 Mbps
    - USB 3.0 super speed – 5 Gbps
    - eSATA – 6 Gbps
- Great for system rescue operation that require an external boot drive or computer sharing in training and various types of applications
- Compact size for convenient transportation
- OS Compatibility:
- USB 3.0 – Windows 7, Vista, 2003, XP
- USB 2.0 / 1.1 – DOS, Windows 7, Vista, 2003, XP, 2000, Me, Mac OS X, Linux Kernel 2.4 and above, Solaris 8 10/00 or later release
- eSATA – DOS, Windows NT4(SP6), Windows 7, Vista, 2003, XP, 2000, Me, Mac OS X, Linux Kernel 2.4 and above

*Optional eSATAp – USB 3.0 adapter for USB 3.0 / 2.0 connections.

SPECIFICATIONS

Maximum # of iVDR-EX Cartridges, SATA or SSD Drives	1
Support drive type	iVDR-EX Cartridge
Interface Type	1 – eSATA or USB 3.0 / 2.0 connection
Supported Operating Systems	All Windows OS's, DOS, Linux (Kernel 2.4 and above), Solaris 8 and Mac OS X 10.4.x
40 x 40 mm cooling fan	1
Power Supply	100 / 240V AC/DC 12V / 5V 34 Watts Power Adapter (AAPAC12V-US)
Weight	2.16 lb (0.979 kg)
Dimension (W x D x H)	10.16 x 6.61 x 2.36 inch
Storage Temperature	-30C° to +60C°
Operating Temperature	+5C° to +40C°
Storage Humidity	5% – 90% RH
Operating Humidity	5% – 95% RH
Warranty	One Year

Note: All specifications are subject to change

LINEUP

Item #	Description	Carton Quantity
	Drive Cartridge Systems	
267000	iVDR External Drive Cartridge with eSATA/USB 3.0	1
267001	iVDR Internal Drive Cartridge (Tray + Frame)	1

Storage/Duplication Accessories

LINEUP

Item #	Description	Carton Quantity
	Storage Tower Accessories	
268000	iVDR DriveTray	1
269000	SATA Drive Tray	1
270000	SATA Drive Cradle on 5 1/4 Bay (Frame)	1
271000	USB 3.0 to eSATAp Adapter	1
272000	2.5" to 3.5" SATA Converter Tray	1
273000	3 Foot eSATA Cable	1
	Diamond Tower Accessories	
274000	iVDR Diamond Drive Tray	1
275000	SATA Diamond Drive Tray	1
276000	IDE Diamond Drive Tray	1
277000	Diamond Drive Cradle on 5 1/4Bay	1

GENpro™ Hard Drives

GENpro™ Hard Drives are the ultimate backup and recovery solution.

- Continuous and automatic PC backup and recovery of everything – including applications, settings and operating systems
- Recovers individual files and folders, just drag and drop
- Recovers entire PC from PC disk crashes to point in time
- Recovers data to another PC in case of PC losses

SPECIFICATIONS

Product	GENpro™	GENpro™	GENpro™	GENpro™	GENpro™
	250 GB	320 GB	500 GB	1 TB	2 TB
Item #	665206	665207	665208	665304	665305
Carton Quantity	4				
Drive	2.5"			3.5"	
Drive Size	7.125" (L) x 6" (W) x 1.5" (H)			10.125" (L) x 7.5" (W) x 3.5" (H)	
Weight	1.2 lb			3.1 lb	
Interface	USB 2.0				
Disk Speed	5400 RPM			7200 RPM	
Transfer Rate	Up to 480MB/s				
Format	FAT 32				
Compatibility	Windows XP and Higher				

DAT Professional

Digital Audiotape/Ceramic Armor Metal Particle.

Maxell DAT ceramic armor metal particles deliver over 2,600 gauss of magnetic energy. An exceptionally uniform dispersion and surface-calendering (polishing) process contributes toward raising RF output and lowering modulation noise. Maxell's DAT tape incorporates a five-layer construction that includes the adoption of an exceptionally smooth base film/dust-resistant backcoating layer and a highly polished magnetic surface that ensures stable tape running. Excellent durability is achieved with the use of a special HB treatment process that securely bonds the tape layers together. This combination achieves an excellent head-to-tape contact and a good overall performance for professional applications. Understanding the needs of the professional user, we include with our Pro DAT package a large label area and a specially designed PP storage case to resist dust, heat, and shock.

SPECIFICATIONS

	Item		Unit	Typical Value
Physical Properties	Total width		mm	3.81
	Magnetic layer thickness		µm	2.5
	Base film thickness		µm	9.5
	Backcoating thickness		µm	1.0
	Light transmittance		%	0.1
	Tape width variation		mm	0.006
	Residual elongation		%	0.1
	Electrical surface resistance	Magnetic layer	Ω/sp	1×10^{10}
		Backcoating	Ω/sp	1×10^{10}
Magnetic Properties	Coercivity (Hc)		kA/m (Oe)	126.1 (1,530)
	Retentivity (Br)		mT (G)	260 (2,600)
	Squareness ratio (Br/Bm)		−	0.80
Electroacoustic Properties	Optimum recording current*		dB	0
	RF output (4.7 MHz)*		dB	+0.5
	RF frequency response (4.7 MHz/1.2 MHz)*		dB	+0.5
	C/N (4.7 MHz/2.7 MHz)*		dB	+0.4
	Overwrite properties*	(1.2 MHz/4.7 MHz)	dB	+0.2
		(130 kHz/1.5 MHz)	dB	+0.2

*All figures refer to Maxell R-DAT reference tape

LINEUP

Item #	Model	Tape (m)	Length (ft)	Recording Time (min)	Cassette Dimensions (mm)	Case Dimensions (mm)	Carton Quantity
182314	R-65DA	33	106	65			
182214	R-95DA	48	157	95	73x54x10.5	80.5x59x15.5	10/100
182114	R-125DA	62	203	125			

Communicator and Duplicator Series

Dependable High-Quality Professional Audiocassettes.

The Communicator, Duplicator, and Instant Start Series audiocassettes offer the consistency you require – backed by the Maxell reputation for excellence. For example, the cassette shells are manufactured to quality-control specifications that are 37% higher than industry standards. The leader tape gives you an exact 5-second cue at the start of the tape, as well as tape travel with direction arrows.

The Instant Start Series is only available in 30-, 60-, and 90-minute lengths.

SPECIFICATIONS

	Item	C-30/C-45/C-60	C-90	C-120
	Total thickness	16.0 µm	11.5 µm	9.5 µm
	Oxide layer thickness	4.0 µm	4.0 µm	4.0 µm
	Yield strength	6 kg	6 kg	6 kg
	Breaking strength	11 kg	11 kg	11 kg
Intrinsic Magnetic Properties	Coercivity (Hc) 30 kVM	385 Oe	385 Oe	385 Oe
	Retentivity (Br) 155 mT	1,550 G	1,550 G	1,550 G
	Squareness (Br/Bm)	0.87	0.87	0.87
	Sensitivity at 315 Hz	+0.5 dB	+0.5 dB	+0.5 dB
	Frequency response			
	12.5 kHz	+0.5 dB	+0.5 dB	+0.5 dB
	16 kHz	+0.5 dB	+0.5 dB	+0.5 dB
	Maximum output level			
	315 Hz (3% THD)	+3.5 dB	+3.5 dB	0 dB
Electroacoustic Properties	10 kHz (saturated)	-5.5 dB	-10.5 dB	-11.0 dB
	Output uniformity			
	315 Hz	0.3 dB	0.3 dB	0.4 dB
	8.0 kHZ	0.4 dB	0.4 dB	0.5 dB
	Weighted noise level			
	AC biased	-55.0 dB	-55.0 dB	-55.0 dB
	Erasing effect	76 dB	76 dB	76 dB
	Print-through	55 dB	55 dB	55 dB

LINEUP

Item #	Model	Recording Time (1 7/8 Ips)	Carton Quantity
102811/101802	COM-30/DUP-30	30 min (15x2)	
102411/101402	COM-60/DUP-60	60 min (30x2)	COM/IS 100
102211/101202	COM-90/DUP-90	90 min (45x2)	DUP 200
102011/102002	COM-120/DUP-120	120 min (60x2)	

Oxide material: Gamma hematite   Standard width: 0.150 in./3.81 mm

Audio
Cross-Reference Chart

	MAXELL	SONY	FUJI	TDK	QUANTEGY	3M	PANASONIC
Type I Audio Cassette Package	COM-30 COM-45 COM-60 COM-90 COM-120		DRI-60 DRI-90	D-30 D-45 D-60 D-90 D-120		AVX-30 AVX-45 AVX-60 AVX-90 AVX-120	
Type I Audio Cassette Bulk	DUP-30 DUP-45 DUP-60 DUP-90 DUP-120			ZM-30 ZM-60 ZM-90 ZM-120			
Type II Audio Cassette Package	MS-20 MS-30 MS-60 MS-90		FRXII-60 FRXII-74 FRXII-90	SA-30 SA-46 SA-60 SA-90 472 C-45 472 C-60 472 C-90	472 C-5 472 C-10 472 C-15 472 C-30		
Standard Package R-DAT Cassettes	R-20DA R-35DA R-50DA R-65DA R-95DA R-125DA	DT-60 DT-90 DT-120	R-60 R-90 R-120	RDM R-60 R-90 R-120	467-R-46 467-R-60 467-R-90 467-R-120	PD-46 PD-60 PD-90 PD-120	

Guardian Security –
USB Backup Drive

- Exceeds government standard encryption security by utilizing
  a 256-bit AES hardware encryption
- Mandatory data encryption ensures safe and secure files
- Complex passwords required for added security
- Saved data is erased after 8 failed password attempts
- Dual – channel NAND flash ensures the fastest transfer rates
- Read speeds: 20MB/s+

SPECIFICATIONS

Product	USB Guardian Security
Size	3.1"(L) x 0.8"(W) x 0.5"(H)
Weight	.25 lb
Interface	USB 2.0
Transfer Rate	20MB/s Read
Flash Type	Dual-Channel MLC
Format	FAT32
Encryption	256-Bit AES Hardware based Encryption
Compatibility	Windows 2000 and Higher

LINEUP

Item #	Description	Capacity	Pack Quantity	Carton Quantity
665000	USB Guardian Security	2 GB	1	10
665001	USB Guardian Security	4 GB	1	10
665002	USB Guardian Security	8 GB	1	10

USB

LINEUP

USB Basic

Item #	Description	Capacity	Pack Quantity	Carton Quantity
Black				
503000	USB Basic	2 GB	1	10
503001	USB Basic	4 GB	1	10
503002	USB Basic	8 GB	1	10
503003	USB Basic	16 GB	1	10

USB Slider

Item #	Description	Capacity	Pack Quantity	Carton Quantity
Black				
503100	USB Slider	2 GB	1	10
503101	USB Slider	4 GB	1	10
503102	USB Slider	8 GB	1	10
503103	USB Slider	16 GB	1	10

USB 360°

Item #	Description	Capacity	Pack Quantity	Carton Quantity
503200	USB 360	2 GB	1	10
503201	USB 360	4 GB	1	10
503202	USB 360	8 GB	1	10
503203	USB 360	16 GB	1	10
503204	USB 360	32 GB	1	10

USB Style

Item #	Description	Capacity	Pack Quantity	Carton Quantity
Black				
503300	USB Style	2 GB	1	10
503301	USB Style	4 GB	1	10
503302	USB Style	8 GB	1	10
503303	USB Style	16 GB	1	10
503304	USB Style	32 GB	1	10
2 Pak Products				
503320	USB Style 2 Pak White/Black	2 GB	1	10
503321	USB Style 2 Pak White/Black	2 GB	1	10

USB

LINEUP

USB Onyx

Item #	Description	Capacity	Pack Quantity	Carton Quantity
503050	USB Onyx	2 GB	1	10
503051	USB Onyx	4 GB	1	10
503052	USB Onyx	8 GB	1	10
503053	USB Onyx	16 GB	1	10

USB Flix

Item #	Description	Capacity	Pack Quantity	Carton Quantity
503801	USB Flix	2 GB	1	10
503802	USB Flix	4 GB	1	10
503803	USB Flix	8 GB	1	10
503804	USB Flix	16 GB	1	10

USB+

Item #	Description	Capacity	Pack Quantity	Carton Quantity
503600	USB+	2 GB	1	10
503601	USB+	4 GB	1	10
503602	USB+	8 GB	1	10
503603	USB+	16 GB	1	10

SD, Micro SD and Compact Flash

LINEUP

SD Card

Item #	Description	Capacity	Pack Quantity	Carton Quantity
Class 2				
501000	SDHC Card	2 GB	1	10
501001	SDHC Card	4 GB	1	10
501002	SDHC Card	8 GB	1	10
501003	SDHC Card	16 GB	1	10
Class 6				
501201	SDHC Card	4 GB	1	10
501202	SDHC Card	8 GB	1	10
501203	SDHC Card	16 GB	1	10
Class 10				
501301	SDHC Card	4 GB	1	10
501302	SDHC Card	8 GB	1	10
501303	SDHC Card	16 GB	1	10
501304	SDHC Card	32 GB	1	10

Micro SD (with adapter)

Item #	Description	Capacity	Pack Quantity	Carton Quantity
Class 2				
502000	Micro SD card (with adaptor)	2 GB	1	10
502001	Micro SD card (with adaptor)	4 GB	1	10
502002	Micro SD card (with adaptor)	8 GB	1	10
502003	Micro SD card (with adaptor)	16 GB	1	10
Class 6				
502201	Micro SD card (with adaptor)	4 GB	1	10
502202	Micro SD card (with adaptor)	8 GB	1	10
502203	Micro SD card (with adaptor)	16 GB	1	10

Compact Flash

Item #	Description	Capacity	Pack Quantity	Carton Quantity
504000	Compact Flash	2 GB	1	10
504001	Compact Flash	4 GB	1	10
504002	Compact Flash	8 GB	1	10
504003	Compact Flash	16 GB	1	10

Alkaline Batteries

Manufactured to the highest standards in the industry Maxell's Alkaline batteries provide unrivalved value.

LINEUP

Item #	Description	Carton Quantity
723407	LR6 2BP – AA CELL 2 Pak	48
723465	LR6 4BP – AA CELL 4 Pak	48
723410	LR6 10BP – AA CELL 10 Pak	24
723453	LR6 20MP – AA CELL 20 Pak	36
723443	LR6 48PK BOX – AA CELL 48 Pak BOX	6
723807	LR03 2BP – AAA CELL 2 Pak	48
723865	LR03 4BP – AAA CELL 4 Pak	48
723810	LR03 10BP – AAA CELL 10 Pak	24
723849	LR03 20MP – AAA CELL 20 Pak	36
723815	LR03 36PK – AAA CELL 36 Pak BOX	6
723320	LR14 2BP – C CELL 2 Pak	12
723020	LR20 2BP – D CELL 2 Pak	12
721110	6LF22 1B – 9 VOLT 1 Pak	48

Rechargeable Batteries

Maxell's Rechargeable Nickel-Metal Hydride Batteries maximize the performance of high drain devices.

LINEUP

Item #	Description	Carton Quantity
888700	BC-100 Compact Charger with 2AA (12 Hour)	6
888701	BC-200 Value Charger with 2AA and AAA (12 Hour)	6
888702	BC-300 Fast Charger with 4AA (4 Hour)	6
888689	MH6 2BP AA 2100 mAh 2 Pak	12/48
888691	MH6 4BP AA 2100 mAh 4 Pak	12/48
888690	MH03 2BP AAA 800 mAh 2 Pak	12/48

Accessories

ACCESSORY PRODUCTS

Maxell offers a line of cleaners and accessories designed to meet your specific needs.

	Item Number	Product/Description	Quantity
CD Markers/ Cleaners	190706	Disc Writer (4 Pak)	6
	190039	CD Quik Fix $.99	24
	190009	CD Cleaning Cloths (50 Pak)	24
	290070	FM Transmitter	6
	190038	CD to Cassette Adapter	6
	190041	Disc Fixer Repair Kit	6
	190042	Disc & Electronic Cleaner (Spray)	6
	190055	CD Lens Cleaner – Auto	6
	190044	CD-240 Lens Cleaner	6
	190048	CD Lens Cleaner	6
	190078	CD Lens Cleaner	6
	190017	Canned Air 10 oz Non-Flammable	6
	190019	Canned Air 10 oz 2 Pak Non-Flammable	6
	190025	CA-3 Blast Away Canned Air 10 oz	6
	190026	CA-4 Blast Away Canned Air 10 oz 2 Pak	6
	190027	Canned Air 3.5 oz	6
CD Storage	190130	Double Slim Jewel Cases 5 Pak	6
	190131	Double Slim Jewel Cases 25 Pak Color	6
	190069	Jewel Box (12 Pak)	6
	190072	Jewel Box (10 Pak)	6
	190074	Jewel Cases 40 Pak Slim Line Clear 5 mm	6
	190076	Jewel Cases 40 Pak Slim (Asstd Color)	6
	190073	Disc Cases Shells 20 Pak Color 5 mm	6
	190082	Disc Cases Shells 6 Pak Color 5 mm	6
	190900	Disc Cases Shells 20 Pak Clear 5 mm	6
	190132	CD and DVD Sleeves Muti-Color 100 Pak	6
	190133	CD and DVD Sleeves White 100 Pak	6
	190134	CD and DVD Sleeves Muti-Color 50 Pak	6
	190135	CD and DVD Sleeves White 50 Pak	6

Accessories

ACCESSORY PRODUCTS

Maxell offers a line of cleaners and accessories designed to meet your specific needs.

	Item Number	Product/Description	Quantity
Screen Cleaners	290015	SC-1 Digital Screen Cleaner	6
DVD Cleaners/ Storage	190714	Mini DVD Lens Cleaner	6
	190059	DVD Only Lens Cleaner	6
	190901	Mini DVD Cases C-Shells 6 Pak Clear	6
	190902	Mini DVD Cases C-Shells 6 Pak Color	6
	190146	Mini DVD Sleeves 30 Pak Clear	6
	190147	Mini DVD Sleeves 30 Pak Color	6
	190800	DVD Boxes 5 Pak Black	6
	190094	DVD/SL-5 DVD Slim Boxes 5 Pak Silver	6
Video Cleaners	290058	VHS Cleaner Dry	6
	290038	VHS Cleaner Wet Premium	6
	290002	Mini DV Head Cleaner Dry	6
	290060	VHS-C Adapter	6
Cables/Connectors	190111	HDMI Cable 4 foot	6
	190112	HDMI Cable 8 foot	6
	190396	Universal USB Travel Kit	6
Cleaning Accessories	190079	Pro Digital Camera Cleaning Kit	6
	190080	Pro Cleaning Clothes	6
Blu-Ray	190054	Blu-Ray/HD Lens Cleaner	6
	190049	Blu-Ray/Game Lens Cleaner	6

Accessories

ACCESSORY PRODUCTS CONTINUED

The Maxell brand of headphones offers you features for every need.

	Item Number	Product/Description	Quantity
Headphones	190568	Stereo Ear Buds	6
	190565	EH-130 Stereo Ear Hooks	6
	190566	EH-130P Stereo Ear Hooks Pink	6
	190567	EH-130B Stereo Ear Hooks Blue	6
	190561	Stereo Ear Clips	6
	190412	Digital Ear Clips	6
	190318	Stereo Headphones	6
	190317	Stereo Head Buds	6
	190316	Stereo Neck Bands	6
	190329	Stereo Neck Band Head Bud	6
	190540	Stereo Color Bud Pink	6
	190541	Stereo Color Bud Blue	6
	190542	Stereo Color Bud Orange	6
	190543	Stereo Color Bud Green	6
	190544	Stereo Color Bud Silver	6
	190545	Stereo Color Bud Gold	6
	190546	Stereo Color Bud Purple	6
	190547	Stereo Color Bud Red	6
	190538	Digital Ear Buds with Wind-up Case	6
	190508	Digital Collapsible Head Buds	6
	190507	Digital Head Buds Wrap Arounds	6
	190439	Digital Headphones Foldable	6
	190562	Digital Headphones Full Ear Foldable	6
	190413	Ultra Thin Digital Neckband Headphones	6
	190405	Digital Full Size High Pro Headphones	4
	190406	Digital Small Size High Pro Headphones	4
	190404	Noise Reduction Ear Buds	6
	190400	Noise Cancellation Headphones	6
	190402	Noise Cancellation Headphones Foldable	6
	190403	Noise Cancellation Headphones Deluxe	6
	190397	In-Line Adapter with Mic for MP-3 Players	6
	190398	Headphones/Cell Phone Extension Cord Kit	6
	190399	Headphones Extension Cord Kit with 4 Adapters	6

Accessories

ACCESSORY PRODUCTS CONTINUED

Maxell's iPod® line offers a range of accessories for the iPod®. You'll find the highest quality coupled with great features for every item.

Maxell items are also compatible with MP3, CD and DVD Players.

	Item Number	Product/Description	Carton Quantity
iPod® Products	191206	Headphone Splitter	6
	191208	Digital Ear Buds – White	6
	291208	Digital Ear Buds – Black	6
	191210	Cassette Adapter	6
	291211	USB Auto Power Adapter	6
	191213	Stereo FM Transmitter	6
	191223	3.5 to 3.5 with Dual RCA Audio and Video	6
	191224	USB AC Power Adapter	6
	191243	Stereo Audio Cable 3.5 mm to 3.5 mm	12
	191350	Digital Neck Strap Ear Buds	6

For more information,
call 1-800-533-2836
or visit our Web site at
www.maxell.com

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